

IN THE CLAIMS

Claim 1 (currently amended). A dose-measurement film (100) for the measurement of UV radiation, and/or electron-beam radiation, or both, with a radiation-sensitive layer (11), ~~characterized in that outer foils wherein covering films (10, 12) have been are~~ provided on both sides of the radiation-sensitive layer (11).

Claim 2 (currently amended). The dose-measurement film as claimed in claim 1, ~~characterized in that wherein the radiation-sensitive layer (11) reacts with coloration to UV radiation or electron-beam radiation, and in particular the radiation-sensitive layer (11)~~ comprises the dye pararosaniline nitrile.

Claim 3 (currently amended). The dose-measurement film as claimed in claim 1 ~~or 2, characterized in that wherein the radiation-sensitive layer (11) comprises an iron oxide opacifier, in particular iron oxide.~~

Claim 4 (currently amended). The dose-measurement film as claimed in ~~any of claims 1 to 3, characterized in that claim 1, wherein~~ the thickness of the radiation-sensitive layer (11) is from 1 to 150 μm , ~~in particular from 2 to 250 μm~~ .

Claim 5 (currently amended). The dose-measurement film as claimed in ~~any of claims 1 to 4, characterized in that the claim 1, wherein the~~ thickness of the ~~outer foils covering films (10, 12) has been designed in such a way that is a thickness which allows~~ from 0.1% to 95%, ~~and in particular from 1% to 50%~~, of the UV radiation impacting the dose-measurement film ~~preferably reaches to reach~~ the radiation-sensitive layer (11).

Claim 6 (currently amended). The dose-measurement film as claimed in ~~any of claims 1 to 5, characterized in that claim 1, wherein the outer foils covering films (10, 12) are composed of plastic, and/or of coated paper or both.~~

Claim 7 (currently amended). The dose-measurement film as claimed in ~~any of claims 1 to 6, characterized in that claim 1, wherein~~ one or both of the ~~outer foils covering~~

films (10, 12) are composed of a vapor-deposited metallic reflective layer or have been provided with a vapor-deposited metallic layer.

Claim 8 (currently amended). The dose-measurement film as claimed in ~~any of claims 1 to 7, characterized in that claim 1, wherein~~ the radiation-sensitive layer (11) ~~has been deposited is a layer formed by deposition~~ from a solvent onto ~~an outer foil one of said covering films~~ (10, 12).

Claim 9 (currently amended). The dose-measurement film as claimed in ~~any of claims 1 to 8, characterized in that claim 1, wherein~~ at least one of the ~~outer foils covering films~~ (10, 12) has ~~been provided with~~ an adhesive layer on its outward-facing side.

Claim 10 (currently amended). The dose-measurement film as claimed in ~~any of claims 1 to 9, characterized in that claim 1, wherein adhesive layers have been used for bonding of~~ the radiation-sensitive layer (11) ~~is adhesively bonded~~ to the ~~outer foil covering film~~ (12), ~~and/or to the outer foil covering film~~ (10), ~~or both~~.

Claim 11 (currently amended). A dose-measurement method, ~~in particular using a dose-measurement film (100) as claimed in any of claims 1 to 10, characterized in that wherein~~, in a measurement device, light is generated with two or more different wavelengths for determination of the optical transmittance of the dose-measurement film (100) ~~of claim 1~~ at the different wavelengths, using a light source switchable between the different wavelengths.

Claim 12 (original). The dose-measurement method as claimed in claim 11, wherein a photodiode is used to generate the light.

Claim 13.(currently amended) The dose-measurement method as claimed in claim 11 ~~or 12~~, wherein the dose-measurement film (100) is drawn by a motor through the measurement device.

Claim 14 (currently amended). The dose-measurement method as claimed in ~~any of claims 11 to 13~~ ~~claim 11~~, wherein measured values from the measurement device are transferred by way of an electronic connection to a computer, and ~~in particular a~~ direct display of the radiation dose in "mJ/cm²" ~~takes place is provided~~.

Claim 15 (currently amended). The dose-measurement method as claimed in ~~any of claims 11 to 14~~ claim 11, wherein a representation of the radiation dose as a function of the location on the dose-measurement film (100) is read out from the measurement device.

Claim 16 (currently amended). The dose-measurement method as claimed in ~~any of claims 11 to 15~~ claim 11, wherein the dose-measurement film (100) is irradiated exclusively with UVC radiation, ~~and in particular only with UV-C radiation~~, and with electromagnetic radiation of even shorter wavelength.

Claim 17 (currently amended). The ~~use of a dose-measurement film (100) as claimed in any of claims 1 to 10 for conduct of a~~ dose-measurement method as claimed in ~~any of claims 11 to 16 in a measurement device~~ claim 11 using a light source which can be switched over to emit light with two or more different wavelengths.

Claim 18 (new). The dose-measurement film as claimed in claim 3, wherein said opacifier is iron oxide.

Claim 19 (new). The dose-measurement film as claimed in claim 4, wherein said thickness is from 2 to 250 µm.

Claim 20 (new). The dose-measurement film as claimed in claim 5, wherein said thickness is a thickness which allows from 1% to 50%, of the UV radiation impacting the dose-measurement film to reach the radiation-sensitive layer (11).

Claim 21 (new). The dose-measurement method as claimed in claim 12, wherein the dose-measurement film (100) is drawn by a motor through the measurement device.